5/133/63/000/001/001/011 A054/A126

AUTHORS:

Gol'dfarb, E. M., Goncharov, I. A., Sabel'nikov, A. G., Soroko, L. N., Tayts, N. Yu., Faynshteyn, I. G., Filonov, V. A

(Deceased), Yaitskiy, A. K.

TITLE:

Investigation of the solidification of large rectangular-section

ingots

PERIODICAL: Stal', no. 1, 1963, 22 - 25

The heavy ingots used at the zavod "Zaporozhstal'" ("Zaporozhstal'" Plant) have a prismatic shape with various ratios of the side-dimensions. The solidification rates of such ingots have not yet been studied sufficiently. Tests were carried out to prove the accuracy of a new calculation method for this purpose, based on the geometrical addition of the solidification rates in various directions in these ingots. The width of the test ingots varied between 1,082 and 1,580 mm, their thickness between 610 and 750 mm and their height was 2,200 and 2,100 mm. Several measuring methods were used. In some tests the temperature was measured at the ingot-mold wall section by inserting chrome-nickel-aluminum

Card 1/3

Investigation of the solidification of...

S/133/63/000/001/001/011

for cooling is 40 minutes shorter than required for their total solidification. The rimming steel ingots are, therefore, now being kept in the pits a longer time to dified. There are 3 figures and 1 table.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut i zavod "Zaporozhstal'" (Dnepropetrovsk Metallurgical Institute and "Zaporozhstal'" Plant)

Card 3/3

S/133/63/000/001/008/011

Determination of the strip temperature...

group. The effects of the heat absorbed by the slab during heating, the cooling time, the cooling methods, the strip surface-to-volume ratio, the chemical composition of the steel, the strip thickness and the rolling rate on the strip temperature were studied. In the tests, stainless [1 X18H 9 T (1Kh18N9T)] and carbon [C T .3kH (St .3kp)] grades were rolled to sizes, varying between 3 x 1,030 and 6 x 1,232 mm. The temperature changes on the finishing stands, the effect of the rolling rate on the X stand and of strip thickness on the end temperature are shown in 8 graphs. At equal temperatures, strip thicknesses and rolling conditions, the end temperature of rolling for stainless steel strips is about 50 - 60°C higher than for carbon steel strips of the same dimensions. Increasing the rolling rate on the X stand by 10 m/min raises the end temperature of rolling for carbon steels by 2 - 3°C and for stainless steels by 5 - 6°C. By reference to the test results on the finishing stands and known equations used in temperature calculations the following empirical formulae were drawn up:

$$t = 815 + \frac{228(h-2)}{(h-2) + 2.57}$$
 (3) for carbon steels and

$$t = 920 + \frac{71(h-3)}{(h-3) + 0.76}$$
 (4) for stainless steels,

Card 2/3

S/133/63/000/001/010/011 A054/A126

AUTHORS:

Natapov, B. S., Soroko, L. N., Barziy, V. K., Filonov, V. A. (Deceased), Gurskiy, G. L., Ioffe, M. M., Letchford, N. I., Yudovich, S. Z.

TITLE:

Improving the stamping properties of 08 10 (08Yu) grade sheet steel

PERIODICAL: Stal', no. 1, 1963, 84 - 86

TEXT: A new technology has been developed to produce low-carbon (0.04 - 0.08%) steel suitable for cold rolling of automobile sheets having good stamping properties and which do not tend to age. From the tests (carried out in co-operation with I. A. Goncharov, G. Mikhaylov, F. A. Ksenzuk, V. G. Antipenko, M. Ye. Kugayenko, L. Dobrovol'skiy, L. I. Odinets, N. P. Cherkashina, A. K. Yaitskiy, I. N. Avramenko, M. I. Lyakhova, R. I. Razumovskaya, S. M. Popev, A. L. Khudas ("Zaporozhstal"), N. P. Semperovich, V. Ye. Ol'shanetskiy, M. D. Voloshchk, F. V. Sigalko (ZMI), K. M. Romanycheva, V. G. Kochevatov (GAZ)) it was concluded that the manganese content of the test grade should be lowered to 0.24 - 0.35%, while the quantity of other elements that increase the hardness

Card 1/2

CHEKMAREV, A.P., akademik; SAF'YAN, M.M., inzh.; KHOLODNYY, V.P., inzh.; SOROKO, L.N., inzh.

Investigating the wear of working and backing rolls on continuous hot rolling sheet mill. Met. i gornorud. prom. no.5:23-28 S-0 63. (MIRA 16:11)

1. Dnepropetrovskiy metallurgicheskiy institut (for Chekmarev, Saf'yan, Kholodnyy). 2. Zavod "Zaporozhstal'" (for Soroko).
3. AN UkrSSR (for Chekmarev).

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520005-5

Cord 1/2	
ABSTRACT: On increasing to 11.8 tons from the previous 10.3 tons the weight of the ingots	
1 A PETGNIN'I RIXIIIEBS BLOOM	1 .
TOPIC TAGS: stainless steel, bright stock lubricant, metal rolling, sheet metal, industri	
	al
SOURCE: Dnepropetrovsk. Institut chernoy metallurgii. Trudy, v. 21, 1965. Prokatnoye	
1 - 1 1b a 7 morrozusiai - 1 Marvaila	
TITLE: Improvements in the techniques of production of Khl8Nl0T cold-rolled wide-strip	
Figure 1: Yudin, M. I. (Engineer)	
ciences); Avramenko, I. N. (Engineer); Dodoka, V. G. (Engineer); Rschauf 1. D. ciences); Avramenko, I. N. (Engineer); Movshovich, V. S. (Engineer); Pavlishch (udin, D. P. (Engineer); Lola, V. N. (Engineer); Movshovich, V. S. (Engineer); Kholodnyy, V. J. B. (Engineer); Soroko, L. N. (Engineer); Sukhobrus, Ye. P. (Engineer); Kholodnyy, V. J. (Engineer)	P.
	eer)
Chalmanay A. P. (Academician AN Oktobry, Language of technical	CITY .
SOURCE CODE: UR/3177/65/021/000/0038/005 AN HESSEN: Saftyan, M. M. (Professor);	74
SOURCE CODE: UR/3177/65/021/000/0038/005	2

41274-66

ACC NR. AT6012089

of Khl8Nl0T stainless steel used to produce 1000 mm wide sheets, the Zaporozhstal' Plant found it possible to reduce by 10-50 kg/mm² the wastage of metal during slabbing. Other innovations introduced in recent years at this plant include: fettling, flame scarfing and planing of ingot surfaces so as to eliminate defects of metallurgical origin prior to slabbing. These measures, along with improvements in the ingot reheating regime, have made it possible to increase the productivity of slabbing mills by 15-20%. The ingots themselves are cone-shaped in order to optimize the conditions of crystallization of the molten metal. After trimming and heating to 1050-1300°C the slabs proceed to a continuous strip mill where they are rolled into 1000 mm wide strip. By introducing the cold rolling of this strip in a reversible four-high mill with a reduction of 85% and by abandoning the practice of intermediate quenching during the production of 0.8-1.4 mm thick sheets rolled from 3.0 mm thick stock, using P-28 bright stock (highly viscous mineral oil) as the lubricant using highly polished rolls, and increasing the convexity of the rolls to offset the increase in roll pressure, and thus streamlining the rolling techniques to an extent at which it became possible to roll in 13 passes 0.8 mm thick strip without overloading the rolls and main drive, the Zaporozhstal' Plant has found it possible to increase by 81% the productivity of its sheet mill and by 180%, the productivity of its reversible cold-rolling mill. The annual savings produced by these innovations amount to: for the slabbing-mill shop, 162,000 rubles; for the sheet-mill shop, 91,000 rubles; for the cold rolling shop, 719,000 rubles. Orig. art. has: 3 figures, 9 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 015

Card 2/2 LC

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notes in	0.00	
		L 42922-66 ENT(m)/ENP(t)/ETI LIP(c) JD/JT SOURCE CODE: UR/0413/66/000/014/0082/0082 ACC NR: AP6029056 Babitskaya, A. N.; Babitskaya, A. N.;
		ACC ND. APOUZ9U70
	1	ACC NR: AP6029056 INVENTOR: Averchenko, P. A.; Alekseyenko, M. F.; Babakov, A. A.; Babitskaya, A. N.; INVENTOR: Averchenko, P. A.; Alekseyenko, M. F.; Babakov, K. S.; Kulygin, G. V.; P.; Bondarenko, A. L.; Gabuyev, G. Kh.; Yel'tsov, K. S.; Kulygin, G. V.; Reservices V. P.; Bondarenko, A. L.; Gabuyev, P. I.; Smolyakov, V. F.;
		INVENTOR: Averchenko, P. A.; Alekseyenko, M. F.; Babakov, A. A.; Babitskays, G. V.; Batrakov, V. P.; Bondarenko, A. L.; Gabuyev, G. Kh.; Yel'tsov, K. S.; Kulygin, G. V.; Loia, V. N.; Orekhov, G. N.; Pridantsev, M. V.; Sklyarov, P. I.; Smolyakov, V. F.; Cougho, J. N.; Solov'yev, L. L.; Frantsov, V. P.; Shamil', Yu. P.; Moshkevich, Ye. I.; Cougho, J. N.; Solov'yev, L. L.; Frantsov, V. P.; Shamil', Yu. P.; Moshkevich, Ye. I.;
		Soroko, L. N.; Solov'yev, L. L.; Frantsov, V. I.,
		Natanov, B. S.
		ORG: none
		TITIE: Stainless steel. Class 40, No. 183947.
		• 111 1900 02
	-	
		introduces a statistical the steel has
		ABSTRACT: This Author Celebratrogen. In order to improve weld Si, 15-18% Cr, chromium, molybdenum, and nitrogen. In order to improve weld Si, 15-18% Cr, chromium, molybdenum, and nitrogen. In order to improve weld Si, 15-18% Cr, chromium, molybdenum, and nitrogen. In order to improve weld Si, 15-18% Cr, chromium, molybdenum, and nitrogen.
		ABSTRACT: This Author Certificate In order to improve weldability, the chromium, molybdenum, and nitrogen. In order to improve weldability, the chromium, molybdenum, and nitrogen. In order to improve weldability, the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd with the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd with the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd with the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd with the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd weldability, the crowd weldability, the crowd weldability, the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd weldability, the chromium, molybdenum, and nitrogen. In order to improve weldability, the crowd weldability, the chromium, molybdenum, and nitrogen. In order to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the chromium, molybdenum, and nitrogen. In order to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the chromium, molybdenum, and nitrogen. In order to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the chromium, and nitrogen. In order to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the chromium, and nitrogen. In order to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the chromium of
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		Card 1/11
	Carren es	

SORCKO, M. I.

"Some Problems of Experimental Study of Locomotive Steam Engines." Min. Railroad Transportation [], USSR, Leningrad Order of Lenin Inst. of Engineers of Railroad Transport imeni Academician V. N. Obraztsov, (Leningrad), 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

S/262/62/000/012/009/013 1007/1207

AUTHOR:

Yevenko, V. I., Soroko, M. I., Apanovich, N. G.

TITLE:

Methods of increasing the economic efficiency of free-piston gas turbine units under

partial load

PERIODICAL:

Referativnyy zhurnal, otdel'ny vypusk. 42. Silovyye ustanovki, no. 12, 1962, 91, abstract

42.12.607. "Collection Tr. Bryansk. in-t transp. mashinostr.", no. 20, 1961, 67-85

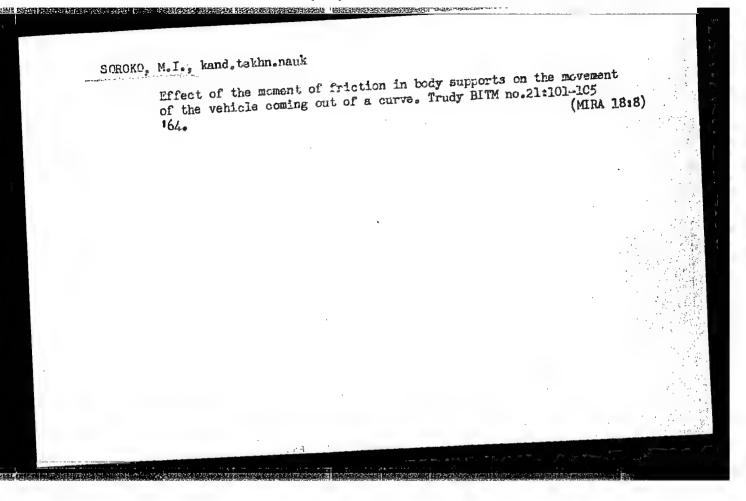
TEXT: An economically efficient and simple method to widen the common range of operation of a combined gas turbine and free piston gas-generator plant is to separate the inlet of gas from each free piston unit to a definite nozzle group of the regulating stage of the turbine. When several free piston units are feeding a single intake manifold, the common range of operation of the free piston unit and the gas turbine can be widened by varying (in steps) the dead clearances (space) in the compressor cylinders of the free piston unit through the connection of additional space. Such a method has a definite thermodynamical advantage as compared with the recirculation of the scavenging air. The performance of the whole plant may also be improved by varying the flow section in the nozzles of the turbine stages.

[Abstracter's note: Complete translation.]

Card 1/1

KAMAYEV, A.A., prof., doktor tekhn.nauk; SOROKO, M.I., kand.tekhn.nauk

Effect of the force of friction in body supports on the curve-in
of the vehicle. Trudy BITM no.21:65-75 *64. (MIRA 18:8)



Pr-4/Ps-4 IJP(c) JD EWT(m)/EPF(c)/EPR/EMP(t)/EWP(b) UR/0076/65/039/006/1403/1407 ACCESSION NR: AP5015691 542.48 + 541.123.3 AUTHOR: Shneyerson, A. L.; Miniovich, M.A.; Filippova, Zh. M.; Soroko, S.N.; B Platonov, P.A. TITLE: Liquid-vapor equilibrium in the systems nitric acid-water-magnesium nitrate, nitric acid-water-calcium nitrate, and nitric acid-water-magnesium nitratecalcium nitrate SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 6, 1965, 1403-1407 TOPIC TAGS: magnesium nitrate, calcium nitrate, nitric acid, phase equilibrium, azeotropic mixture ABSTRACT: The presence of magnesium nitrate, calcium nitrate or their mixtures in the HNO3-H2O system sharply increases the HNO3 content in the vapor phase and displaces its azeotropic point, the effect of magnesium nitrate being more pronounced. For example, the equilibrium concentration of HNO3 in the vapor phase over pure 20% HNO3 is about 1.5%. However, when 60% Ca(NO3)2 or Mg(NO3)2 is present, the HNO3 concentration in the vapor phase increases to 53.5 and 82.3%, respectively. The 1/4 Card

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effect of the nitra	tes on the azec	otropic point of nitric acid is approximately additive. pullibrium vapor compositions for the system it is sufficient to have data for the ternary systems	
Hence, in order to	o obtain the eq	it is sufficient to have data for the ternary systems	
Manayenkova and	og and 2 tables		
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Nitrogen industry SUBMITTED: 13	3Feb64	ENCL: 02 SUB CODE: IC	

SOROKO, T. I.

Dissertation: "Kinetic Investigation of Initiated Auto-oxidation In Some Aldylbenzenes."

Cand Chem Sci, Acad Sci Belorussian SSR, Department of Physicomathematical and Cand Chem Sci, Minsk, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 5, Mar 54)

Technical Sciences, Minsk, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 5, Mar 54)

SO: SUM 243, 19 Oct 54

SOROKOTI

USSR/Organic Chemistry - Naturally Occurring Substances and Their Synthetic Analogs,

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1034

Author: Yerofeyev, B. V., Mitskevich, N. I., and Soroko, T. I.

Institution: Academy of Sciences Belorussian SSR

Title: Conjugated Decarboxylation During the Autoxidation of Dehydroabietic

Acid

Izv. AN BSSR, 1955, No 2, 131-135 (published in Russian); Vestsi AN
BSSR, 1955, No 2, 124-128 (published in Belorussian) Original Periodical:

It has been established that the autoxidation of dehydroabietic acid Abstract:

(I) is accompanied by decarboxylation. Heating colophony (3 hours at 340°) yields the "pyroacid," which is sulfonated; acid hydrolysis of the sulfodehydroabietic acid yields I, mp 172-173.5° (from alcohol) $\sqrt{\alpha}$ D + 63.770. Autoxidation of I is carried out in naphthalene at 85 and 950 in the presence of Co-acetate (II) (one percent by weight

based on I). The apparatus described previously (Referat Zhur - Khimiya,

Card 1/2

SUKUKO, T.L.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions,

B-9

Topochemistry, Catalysis.

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 441

Author : N.I. Mitskevich, T.I. Soroko.

Inst : Academy of Sciences of White Russian SSR, Institute of

Chemistry.

Title : Kinetics of Initiated Auto-Oxidation of Dehydroabietic

Acid.

Orig Pub : Sb. nauchn. rabot. In-t khimii AN BSSR, 1956, vyp. 5(1),

174-187

Abstract : Acetates of Mn, Co, Ni, Cu and Pb and butyrate, stearate

and dehydroabietate of Co were used at 85° as initiators of the auto-oxidation of the dehydroabietic acid (I) dissolved in naphthalene. The reaction kinetics was studied in a system static in reference to 0_2 absorption. Under

Card 1/2

USSE/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

B-9

: Ref Zhur - Khimiya, No 1, 1958, 441 Abs Jour

> these conditions a non-initiated reaction does not proceed. The initiator efficiency does not depend on the anion nature, salts of Co prove to be the most active. An increase of the initiator amount above 1% does not result in any further increase of the oxidation speed. The presence of hydrocarbons and CO2 in the reaction products indicates that decarboxylation of I takes place together with oxidation.

Card 2/2

Conjugate Decarboxylation of the Autooxidation of Iso- 20-1-28/54 propylbenzene in a Mixture with Fatty Acids.

speed of isopropylbenzene is about four times higher in the presentce of an acid than without an acid. The initial speed was highest, then it decreased. Tab. 1 shows the influence of the acid concentration on this speed. Addition of 1,04 % of isobutgric acid increases the speed more than four-fold. Further additions of acid virtually do not change the amount of oxygen absorbed at all. However, they bring about an increase in the developing CO, more than six-fold, at a practically anchanged amount of absorbed exygen. The test results of the oxydation of isopropylbenzene in a mixture with radioactive acetic acid(labeled on the carboxyl)confirms that the escaping CO2, at least partly, develops at the expense of the carboxyl group of the added acid. The tests with oxydation of acetic, butyric, isobutyric and stearic soids under analogous conditions but without isopropylbenzene showed that neither an absorption of oxygen nor a formation of CO2 takes place. The small amount of CO2 escaping on this occasion probably represents a process. which is connected with the autooxydation of these acids. A scheme is proposed for the conjugate decarboxylation process of organic acids with a simultaneous autooxydation of hydrocarbons. It consists of: 1.formation of the radical of isopropylbenzene peroxide, 2.interaction of this radical with the organic acid under formation of a acid radical, 3. the decarboxylation as such, 4.separation of a hydrogen aton from isopropylbenzene in the tertiary group due to interaction

Card 2/3

SCROKO, T. I., MITSKEVICH, N. I., and YEROFEYEV, B. V.

"Conjugated Decarboxylation in the Autoxidation of Abietic Acid."

Swornik nauchnykh rabot, vyp. 6, (Collection of Scientific Works of the Inst. of Chemistry, Belorussian SSR, Acad. Sci., No. 6,)Minsk, Izd-vo AN Belorusskoy SSR, 1958, 271pp.

MITSKEVICH, N.I.; SOROKO, T.I.; YEROFEYEV, B.V.

Conjugated decarboxylation in auto-oxidation of abletic acid. Sbor.
nauch. rab. Inst. khim. AN BSSR no.6:66-82 '58. (MIRA 11:11)

(Oxidation) (Abletic acid)

MITSKEVICH, N.I.; SOROKO, T.I.; SHCHERBAK, L.I.

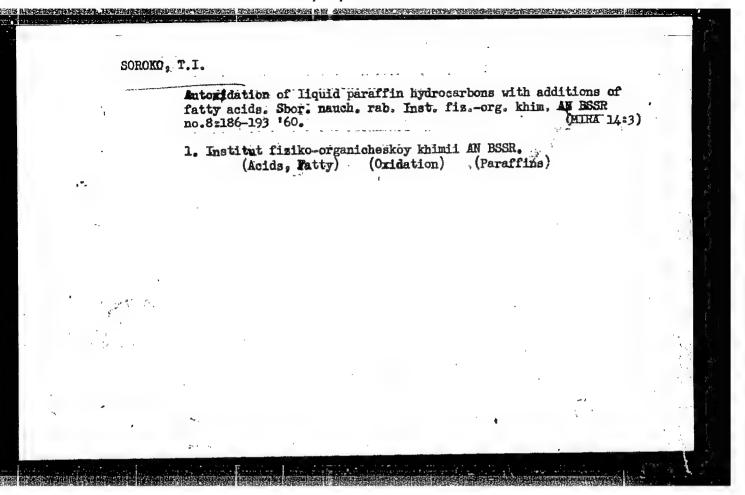
Autoxidation of mixtures of isopropylbenzene with cyclohexene and dipentene. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no. 7:23-32 159.

(Benzene) (Cyclohexene) (Dipentene)

MITSKEVICH, N.I.; SOROKO, T.I.; KONOPLYANNIK, M.M.

Decarboxylation associated with the autoxidation of liquid paraffin hydrocarbons. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no.8:175-185 160. (MIRA 14:3)

1. Institut fiziko-organicheskoy khimii AN BSSR.
(Hydrocarbons) (Carboxyl group) (Carbonyl group)



s/080/60/033/04/26/045

AUTHORS:

Yerofeyev. B.V., Soroko, T.I.

TITLE:

On the Chemism of the Initiation of Self-Oxidation of Cument by Manganese

Salts

PERIODICAL:

Zhurnal prikladnov khimii, 1960, Vol 33, Nr 4, pp 903 - 910

TEXT: The self-oxidation of cumene in the presence of manganese salts was studied with a view to elucidating the initiating action of these salts. Cumene used in the experiments was synthesized from isopropyl and benzene chloride and had the following physico-chemical constants: boiling point 151.0 - 153.0°C, n²0 1.4929, d²⁰4 0.86255. It was shown that at 95°C and an oxygen pressure of 590 mm Hg the oxidation of cumene does not take place, and proceeds very slowly in the presence of manganese acetate. The self-oxidation rate increases, however, in the case of the purification of cumene by means of sodium metal. After boiling cumene for 3 hours over sodium metal with subsequent distillation the reaction rate increases 60 times. Kolmakov and Razuvayev [Ref 14] found that the induction period decreases as a result of additions of cumene hydroperoxide or manganese resinate as initiator. The induction period depends on the purification of cumene and the type of initiator. In the presence of manganese

Card 1/2

8/080/60/033/04/26/045

On the Chemism of the Initiation of Self-Oxidation of Cumene by Manganese Salts

butyrate it is completely absent. The initiator changes during the process of self-oxidation, losing its initiating capacity. At the same time the manganese content in it increases. It has been pointed out that the experimental facts observed do not agree with the initiation theory of several authors, which includes the alternating oxidation and reduction of the initiator by cumene hydroperoxide. The results agree, however, with the initiation theory, according to which the formation of free radicals takes place during reduction of the initiator by hydrocarbon.

There are: 7 sets of graphs, 1 diagram and 24 references, 12 of which are Soviet, 7 English, 3 German and 2 American.

SUBMITTED: September 17, 1959

Card 2/2

YEROFEYEV, B.V.; SOROKO, T.I. (Minsk)

New type of dependence of the autooxidation rate of cumene on the initiator concentration. Zhur.fiz.khim. 36 no.8:1717-1722 Ag '62. (MIRA 15:8)

1. Institut fiziko-organicheskoy khimii AN BSSR. (Cumene) (Oxidation)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520005-5

Abstariya nauk 2020. Institut kaindalakuy fisiki Ghislaniya mauk 2020. Institut kaindalakuy fisiki asabasa in ka idanid hasa kainta of Aridais kelenca (Ordenton of Priro- asabasa in ka idanid hasa Colled. 2,000 orden printed. 2059. 31 p. Brrata sip kasarda 2,000 orden printed. 2059. 31 p. Brrata sip kasarda 2,000 orden printed. 2051. E. Brrata in pastron of Aridais 10 kinnes UNDR M. of palitaking Excess. E. Brrataysy Toch Ed.: I. P. Min'ell. 2052. Mis sollaction of aridais 2s intended for chemists inseresed in palitocation ordention of aridais as intended for chemists inseresed in palitocation ordention of aridais represents the specialising in pertol 2072. Mis priod of several years on problems arbidrocation ordention. Es subbors persent blessents. In percentitions as marketiones accorpany 2072. Mis bridges. 2072. Mis mand illerature. In percentities are marketioned. Metavous accorpany 2073. Mis bridges.	Part of the state of the control of Cortage in Minkadio Jonate Principal of the composition of Cortage in Minkadio Jonate Principal of the Composition of Cortage in Minkadio Jonate International Int

SOROKO, V. P.

"Work of the Institute (Gipronikel') in the Field of Building Vibration Loading Machinery."

report presented at a coordination Conference on Problems of Design and Testing of Vibration type machinery, Mining Institute, Acad. Sci. USSR, 9-10 July 1958. (Izv. AN SSSR, Otdel Tekh Nauk 1958, No. 11, p. 152)

Affil. Gipronikel'

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652520005-5"

KOZHEVNKOV, V.A.; SOROKO, V.I.

Two-cascade direct-current amplifier with high amplification.
Biofizika 1 no.1:95-97 156. (MLRA 9:12)

1. Institut fiziologii imeni I.P.Pavlova *kademii nauk SSSR, Leningrad.

(AMPLIFIERS, KLECTRON-TUBE)

KOZHAVNIKOV. V.A.; SOROKO, V.I.

Appliance for auditory fetection of electroencephalographic and other biological currents; encephalophone. Zhur.vys.nerv. deiat. 6 no.3: 479-481 My-Je '56. (MIRA 9:11)

1. Laboratoriya fziologii slukhovogo analizatora Instituta fiziologii im. I.P.Pavlova AN SSSR.

(RIECTROENCEPHALOGRAPHY, apparatus and instruments, encephalophone (Rus))
(EIECTROPHYSIOLOGY, apparatus and instruments, encephalophone (Rus))

KOZHEVNIKOV, V.A.; SOROKO, V.I.

Gonstruction of differential amplifiers for thr registration of biopotentials without screening the object. Fiziol. zhur.
43 no.2:187-191 F '57 (MIRA 10:4)

1. Laboratoriya fiziologii slukhovogo amalizatora Instituta fiziologii im. I.P. Pavlova AN SSSR, Leningrad.

ELECTROPHYSIOLOGY, appar. and instruments differential amplifiers for registration of biopotentials without screening of object)

KOZHRVNIKOV, V.A. SOROKO, V.I.

Electronic apparatus for measuring alpha-rhythm variations of the electroencephalogram produced by stimulations. Probl.fisiol.akust. 4:80-83 159. (MIRA 13:5)

1. Laboratoriya fisiologii slukhovogo analizatora Instituta fisiologii imeni I.P. Pavlova AN SSSR, Leningrad. (AUDIOMETRY) (MLECTROENGEPHALOGRAFHY) (MLECTRONIC INSTRUMENTS)

SOROKO, V. M.

PA 13/49T103

USSR/Medicine - Malaria Medicine - Colitis

Mar 48

"Changes in the Capillaries of the Base of Nails in Children Suffering From Malaria or Colitis," V. M. Soroko (Children's Clinic, Mil Med Acad imeni S. M. Kirov), 1 p

"Vep Ped 1 Okhran Mater 1 Det" Vol XVI, No 3

Reports capillaroscopic observations on 53 children with malaria and 25 with colitis. Concludes that capillaropathy is not specific; its development is evidently caused by various factors. However, its dynamic study gives much valuable data. In particular, it opens the way to a better understanding of the pathogenesis of diseases.

13/49T103

DU :YUA-ZHER' [Tu, Hsueh-hen]; FLIS, Yu.A.; SOROKO, V.M. SOROKO, L.M.

[Setup for producing intense molecular beams by means of a supersonic nozzle] Ustanovka dlia polucheniia intensivnykh molekuliarnykh puchkov s pomoshch'iu sverkhzvukovogo sopla. Dubna, Ob"edirennyi in-t iadernykh issl. 1963. 35 p. (MIRA 17:7)

S/0120/64/000/002/0022/0023

ACCESSION NR: AP4033099

AUTHOR: Petrukhin, V. I.; Prokoshkin, Yu. D.; Soroko, V. M.

TITLE: Foam-polystyrene liquid-hydrogen target

SOURCE: Pribory* i tekhnika eksperimenta no. 2, 1964, 22-23

TOPIC TAGS: nuclear target, liquid hydrogen target, foam polystyrene target

ABSTRACT: A new two-chamber foam-polystyrene liquid-hydrogen-filled target is described (see Fig. 1 of the Enclosure). The liquid hydrogen is stored in a tank (3) surrounded by a liquid-nitrogen screen (5). The tank is connected with the targets (1) and (2); one of them can be placed into a beam of particles. The targets and the tank are surrounded by foam-polystyrene jackets which are cooled by the ambient evaporating hydrogen. The 13-liter which are cooled by the ambient evaporating hydrogen.

Card 1/3

ACCESSION NR: AP4033099

removal of the hydrogen from the targets (1) and (2). The hydrogen capacity is 33 liters; cooling nitrogen consumption is 6 lit/hr; time of hold of the hydrogen (ortho plus para in 3:1 ratio) is 30 hr. "We take this opportunity to thank V. Vlasov and V. N. Dmitriyevskaya for their help in preparing and testing the target." Orig. art. has: 1 figure.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Nuclear

Research Institute)

ENGL: 01 DATE ACQ: 11May64 SUBMITTED: 21May 63

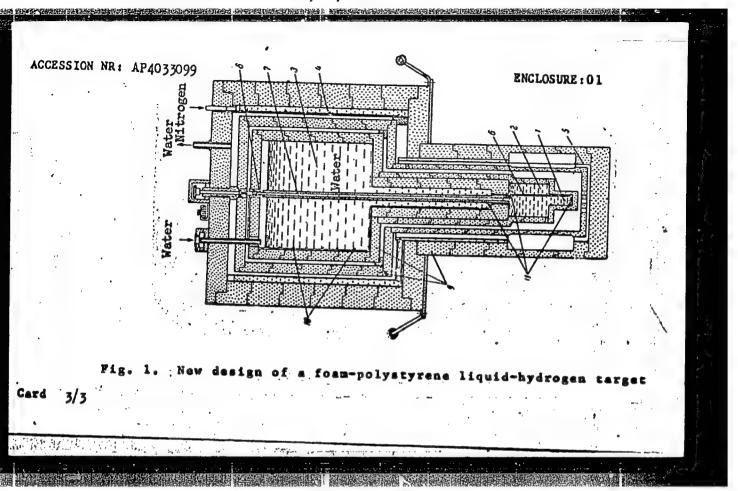
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ATD PRESS: 3043

Card 2/3

CIA-RDP86-00513R001652520005-5" APPROVED FOR RELEASE: 08/23/2000



DU SYUYE-ZHEN! [Tu Hsüch-jen]; PLIS, Yu.A.; SOROKO, V.M.; SOROKO, L.II.

Apparatus for generating intense molecular beams by means of

a supersonic nozzle. Prib. i tekh. eksp. 9 no.6:104-106 K-D (MIFA 18:3)

1. Ob"yedinennyy institut yadernykh issledovaniy.

Executed. V.S., kandidat tekhnicheskikn nauk; KAL'NITSKIY, Ya.B., kandidat tekhnicheskikh nauk; SORCKO, V.V., gornyy inzhaner.

Experimental grounds for the use of a rotery-rabble londing machine.

Gor.zhur. no.9:47-50 5 '57.

1. Vaesoyuznyy nauchno-iseledovatel'skiy institut Gormash.

(Ore handling) (Mining machinery)

SOROKO, V.V.

Experimental study of the use of vibration in the working parts of loading machine with periodical action. Isv. Sib. otd. AN SSSR no.10: 54-64 '58. (MIRA 11:12)

l. Laboratoriya transportnykh i pogruzochnykh mashin instituta "Gipronikel".

(Shoveling machines) (Vibraters)

SOROKO, V.V.. inzh.

Experimental investigation of a shaker rake. Izv.vys.ucheb.
zav.; gor.zhur. no.10:90-99 '58. (NIRA 12:8)

1. Institut Gipronikel'. (Mining machinery)

SOROKO, V.V., Cand Tech Sci — (diss) "Study of the use of vibration oscillations in the working parts of loading machines for the ore-mining industry." Len, 1959, 2h pp (Min of Higher Education USSR. Len order of Lenin and Labor Red Banner Mining Inst im G.V. Plekhanov. Chair of Mining Transportation) 130 copies.

Mimeographed (KL, 34-59, 114)

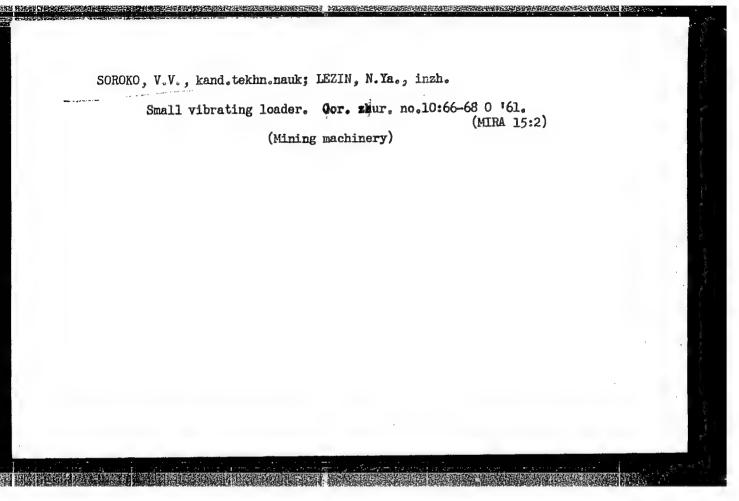
- 55 -

SOROKO, V.V., kand.tekhn.nauk; GOLOVIN, N.S., inzh.

FMGRed rotary disc leader. Gor. hur. no.3:56-57 Mr '61.

(MIRA 14:3)

1. Capronikel', Leningrad.
(Ore handling—Equipment and supplies)



RODIONOV, Georgiy Viktorovich, doktor tekhn.nauk; KAL'NITSKIY, Yakov
Borisovich, kand.tekhn.nauk; GURKOV, Konstantin Stopanovich, kand.
tekhn.nauk; KOSTYLEV, Aleksandr Dmitriyevich, kand. tekhn.nauk;
MIKHIREV, Petr Aleksandrovich, kand. tekhn. nauk; FRESS, Igor'
Mikhaylovich, nauchnyy sotr.; SOBOL', Arkadiy Vladimirovich, st.
nauchnyy sotr.; SOROKO, Veniamin Vasil'yevich, kand. tekhn.nauk;
BAZANOV, A.F., kand. tekhn. nauk, retsenzent; BULATOV, S.I., red.
izd-va; Siirnova, G.V., tekhn. red.

[Loading machines for loose and lump materials; design, teory, and calculation] Pogruzochnye mashiny dlia sypuchikh i kuskovykh materialov; konstruktsiia, teoriia i raschet. [By]K.S.Gurkov i dr. Moskva, Mashgiz, 1962. 286 p. (MIRA 15:12) (Loading and unloading—Equipment and supplies)

KAL'NITSKIY, Ya.B.; KOSTYLEV, A.D.; SOROKO, V.V.; GURKOV, K.S.

Introduce vibration equipment on a broad scale. Gor. zhur.
no.12:62-63 **62. (MIRA 15:11)

(Ore handling--Equipment and supplies)

(Vibration)

MUKHIENOV, I.P.; IVANOVA, R.S.; SOROKO, V.Ye.

Effect of water vapors and iron compounds on the activity of a

vanadium catalyst in a fluidized bed. Zhur. prikl. khim. 36 no.4:730-736 Ap '63. (MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Vanadium catalysts) (Water vapor)
(Iron compounds)

GORSHTEYN, A.Ye.; SOROKO, V.Ye.

Piezoelectric method of investigating the structure of a fluidized bed. Izv.vys.ucheb.zav.;khim. i khim.tekh. 7 no. 1: 137-140 '64. (MIRA 17:5)

1. Leningredskiy tekhnologicheskiy institut im. Lensoveta, kafedra obshchey khimicheskoy tekhnologii.

SCHOOL, V.Te.; MUXHIMOV, J.P. MISHALLY, M.F.

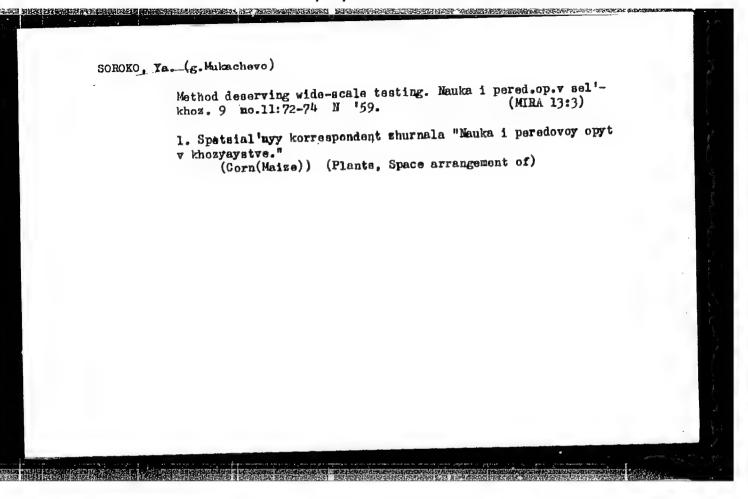
Calculating the minimum hydraulic resistance of gas destribution grids of apparatus with a fluidized bod. Izv.vys.ucheb.zav.; khim.i knim.tekh. 8 nc.1:652-673 165.

(MIRA 18:11)

1. "wingradskiy tekhnologichaskiy institut imeni lengoveta, kafedra obsachey khimichaskoy tekhnologii.

SCHOKO, Ya., spetsial'nyy korrespondent (Selo Ol'shany, Ol'shanskogo rayona, Cherkasskoy oblasti).

Meteorologist of the collective farm. Nauka i pered. op. v sel'khoz. 9 no.2:33-36 F '59. (MIRA 12:3) (Meteorology, Agricultural) (Chaban, Ustim Nikitovich)



A I DESCRIPTION OF THE PROPERTY OF THE PROPERT

SOROKO, Yan Iosifovich; LEONOVA, T.S., red.; ATROSHCHENKO, L.Ye.,

tekhn. red.

[Everyday work of a zootechnician; a sketch]Budni zootekhnika; ochork. Moskva, Izd-vo "Znanie," 1962. 46 p. (Nove vizitzni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.17)

(MIRA 15:10)

(Stock and stockbreeding)

GIMMERL'FARB, Boris Mikhaylovich, doktor geol.-miner. nauk; SORONO,
Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Fertilizing rocks] Kammi plodorodiia. Moskva, Izd-vo
"Znanie," 1963. 39 p. (Novoe v zhiśni, nauke, tekhnike.

XII Seriia: Geologiia i geografiia, no.15) (MIRA 16:8)

(Fertilizing rocks)

ZHURAVLEV, Aleksandr Ivanovich, kand. biolog. nauk; VESELOVSKIY,
Vladimir Aleksandrovich; SOROKO, Ya.I., red.; ATROSHCHENKO,
L.Ye., tekhn. red.

[Bioluminescence] Zhivoe svechenie. Moskva, Izd-vo "Znanie,"
1963. 45 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia:
1963. 45 p. (Bioluminescence)

(Bioluminescence)

(Bioluminescence)

NAPALKOV, Anatoliy Viktorovich, kand. biol. nauk; CHICHVARINA,
Nataliya Afanas'yevna; SOROKO, Ya.I., red.; NAZAROVA, A.S.,
tekhn. red.

[Brain and cybernetics; cybernetic keys to the secrets of the
brain | Mozg i kibernetika; kiberneticheskie kliuchi k tainam
brain | Mozga. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni,
mozga. Moskva, VIII Seriia: Biologiia i meditsina, no.11)
nauke, tekhnike. VIII Seriia: Biologiia i meditsina (MIRA 16:7)

(BRAIN) (CYBERNETICS)

BRAUN, Aleksandr Davydovich, doktor biol. nauk; SOROKO, Ya.I.,
red.; RAKITIN, I.T., tekhn. red.

[Riddles of irritability] Zagadki razdrazhimosti. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, skva, Izd-vo "Znania: Biologiia i meditsina, no.13)
tekhnike. VIII Seriia: Biologiia i meditsina, No. (MIRA 16:7)

(IRRITABILITY)

PETROV, Rem Viktorovich, doktor med. nauk; SOROKO, Ya.I., red.;

NAZAROVA, A.S., tekhn. red.

[Immunology and sphinxes of the 20th century] Immunologiia i sfinksy XX veka. Moskva, Izd-vo "Znanie," 1963. 47 p. (Nove v zhizni, nauke, ekhnike. VIII Seria: Biologiia, no.8)

(IMMUNITY)

(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

MAYSKIY, Ivan Nikolayevich, doktor med. nauk, prof.; SOROKO, Ya.I., red.; NAZAROVA, A.S., tekhn. red.

[Experimental genetics and medicine] Eksperimental naia
[Experimental genetics and medicine] Eksperimental naia
(Novoe v zhizni, nauke, tekhnike: VIII Seriia: Biologiia i
(Novoe v zhizni, nauke, tekhnike: VIII Seriia: Biologiia i
(MIRA 16:10)

(GENETICS) (MEDICINE, EXPERIMENTAL)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

AMOSOV, Nikolay Mikhaylovich; SOROKO, Ya.I., red.; KUDRYAVTSEVA,
O.V., tekhn. red.

[Cybernetics and medicine] Kibernetika i meditsina; rasshirennaia stenogramma lektsii, prochitannoi v TSentral'nom lektorii Vsesoiuznogo obshchestva "Znanie." Moskva,
Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke,
tekhnike. VIII Seriia: Biologiia i meditsina, no.17)
(MIRA 16:11)

1. Chlen-korrespondent AMN SSSR (for Amosov).

(INFORMATION THEORY IN BIOLOGY)

SHOFMAN, Maks Adol'fovich; SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn. red.

["Secrets" of oriental medicine] "Sekrety" vostochnoi meditsiny. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.2)

1. Klinika Moskovskogo gosudarstvennogo universiteta (for Shofman).
(MEDICINE, CHINESE) (MEDICINE, HINDU)

YERSHOV, Feliks Ivanovich, kand. med. nauk; ZHDANOV, V.M., nauchnyy red.; SOROKO, Ya.I., red.; NAZAROVA, A.S., tekhn. red.

[Problem of virus and cell correlation]Problema "virus - kletka."
Pod nauchn. red. V.M.Zhdanova. Moskva, Izd-vo "Znanie," 1963.
30 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.5)

(MIRA 16:2)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Zhdanov).

(VIRUSES)

SHILLER, Natan Yefimovich; SHISHINA, Yuliya Grigor'yevna; PETROV, R.V., doktor biol. nauk, red.; SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Barrier of incompatibility]Bar'er nesovmestimosti. Pod nauchn. red. R.V.Petrova. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, (MIRA 16:2) no.4)

(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

HERNSHTEYN, Aleksandr Davidovich, doktor biol. nauk, zasl. deyatel nauki; SOROKO, Ya.I., red.

[Life and movement] Zhivoe dvizhenie. Moskva, Izd-vo "Znanie," 1964. 45 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.7) (MIRA 17:5)

FUTKO, Aleksandr Borisovich; SOROKO, Ya.I., red.

[Subdued virus; victory over poliomyelitis] Ukroshchennyi virus; pobeda nad poliomielitom. Moskva, Izd-vo nyi virus; pobeda

YUDAYEV, Nikolay Alekseyevich; SOROKO, Ya.I., red.

[Hormones and health; biochemistry of hormones ar! its significance for practical medicine] Gormony i zdorov'e; biokhimiia gormonov i ee znachenie dlia prakticheskoi meditsiny. Moskva, Izd-vo "Znanie," 1964. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.10)

1. Chlen-korrespondent AMN SSSR (for Yudayev).

[Hypotension and hypertension] Gipoteniia i gipertoniia.

Moskva, Izd-vo "Znanie," 1964. 29 p. (Novce v zhizni,

nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.12)

(MIRA 17:7)

1. Deyatvitel'nyy chlen ANN SSSR (for Molchanov).

GROMOVA, Yelena Anatol'yevna, doktor biol. nauk; <u>SOMO</u>KO, Ya.I., red.

[Electrical phenomena in the body] Elektricheskie iavleniia v organizme. Moskva, Znanie, 1964. 30 p.

(MIRA 17:9)

我是对他们来的大学的永远的时间也未完全在50岁的对话的,这些不是对人为的工作的思想。 第185章 1850年,我们就是一种"我们是一种我们是一种,我们就是一种"我们"的人,我们就是一种"我们"的人,我们就是一种"我们"的人,我们就是一种"我们"的

PORTNOV, Foma Grigor'yevich, doktor med. nauk; NIKOLAYEV, V.R., red.; SOROKO, Ya.I., red.

[Aeroions and the health] Aeroiony i zdorov'e. Moskva, Znanie, 1964. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.22)

(MIRA 17:12)

SISAKYAN, Norayr Martirosovich, akademik; SEVERIN, Sergey Yevgen'yevich; PARIN, Vasiliy Vasil'yevich; EL'PINER, Isaak Yefimovich, doktor biol. nauk; KUZIN, Aleksandr Mikhaylovich; ISAYEV, I.B.; SOROKO, Ya.I., red.

[Biology and its allies] Biologiia i ee soiusmiki; sbornik.

Moskva, Izd-vo "Znanie," 1964. 77 p. (Novoe v zhizni,
nauke, tekhnike. VIII Seriia: Biologiia i meditsina, nos.17-18)

(MIRA 17:10)

1. Deystvitel'nyy chlen AMN SSSR (for Severin, Parin). 2. Chlen-korrespondent AN SSSR (for Kuzin).

KHVATOV, horis taviovich, doktor med. nauk, prof.; FELORCV, noadti Kiknaylovich; 30HOKO, Yalley red.

[Thbryo develors in a flask; a biological "condie"] Zarodysh razvivactala v kelbe; biologicheskala "kolybell."

Nockwa, izdevo "Znande," 1984. 31 p. (Novoe v zhizni, hockwa, izdevo "Znande," 1984. 31 p. (Novoe v zhizni, mauke, tokhnike. VIII Sertin: diologiia i meditsina, no.19)

(NIRA 1811)

KHOROVETSKIY, M. [Khorovets'kyi, M.], inzh.; SOROKO, Yu., inzh.

New suggestions concerning building roofing for rural structures; some results of a competition for an aconomical roofing for rural construction. Sil'. bud. 13 no.11:19-21 N '63. (MIRA 17:1)

SOROKO, Yu.L.

Experience in preventing the formation of longitudinal cracks in supports of overhead contact systems. Transp. stroi. 15 no.10:45 0 '65. (MIRA 18:12)

l. Nachal'nik otdela tekhnicheskogo kontrolya Darnitskogo zavoda zhelezobetonnykh konstruktsiy.

ROZENBERG, N.M., inzh.; SOROKODUMOVA, N.I., inzh.; TELESHEVSKIY, B.Is., inzh., retsenzent; SOKOLOV, A.G., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Television and its use in railroad transportation] Televidenie i ego primenenie na zheleznodorozhnom transporte. Moskva, Transzheldorizdat, 1963. 186 p. (MIRA 16:10) (Railroads--Communication systems) (Industrial television)

SASHENKOV, Mikhail Semenovich, kand. tekhn. nauk; SOROKOLETOV,
Aleksandr Fedorovich; AFONASOV, Nikifor Ivanovich. dots.;
UKOLOV, Mikhail Sergeyevich, inzh. st. nauchn. sotr.;
GONCHARENKO, Andrey Nikiforovich, inzh. mlad. nauchn. sotr.;
KHLYUSTIKOVA, Iraida Nikolyaevna, inzh., ml. nauchn. sotr.;
GOLIK, Svetlana Andreyevna, inzh.

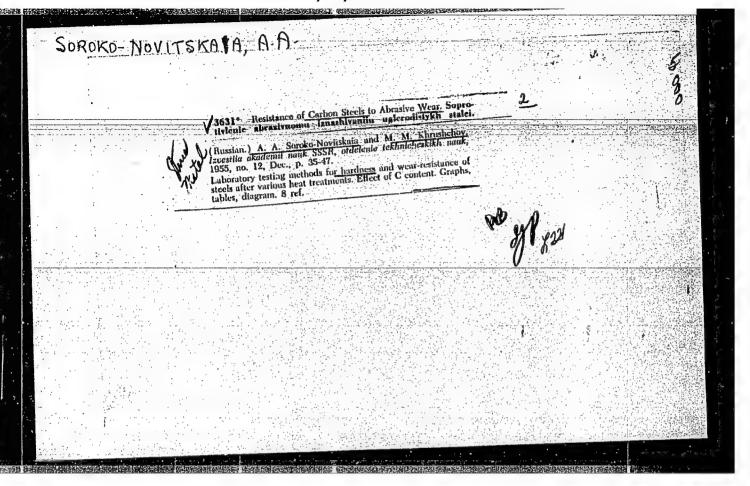
[Specialized transportation facilities for the haulage of building materials and elements] Spetsializirovannye transportnye sredstva dlia perevozki stroitel'nykh materialov i konstruktsii. Moskva, Stroitedt, 1964. 57 p. (MIRA 18:5)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

2. Rukovoditel' laboratorii transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sashenkov).

3. Glavnyy inzhener laboratorii transportnykh rabot otdela transportnykh. pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sorokoletov).

4. Laboratoriya transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Afonasov, Ukolov, Goncharenko, Khlyustikova).



SCROKO-NOVITSKAYA, A. A., Candidate of Tech Sci (diss) -- "Investigation of the effect of composition, hardness, and structure of carbon steels on their resistance to abrasive invasion". Moscow, 1959. 17 pp (Acad Sci USSR, Inst of Machine Science), 150 copies (KL, No 21, 1959, 116)

SOV/129-59-4-11/17

AUTHOR: Soroko-Novitskaya, A.A. (Engineer)

TITLE: Influence of Isothermal Treatment on the Wear Resistance

of Carbon Steel (Vliyaniye izotermicheskoy obrabotki na

iznosostoykost' uglercdistoy stali)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,

1959, Nr 4, pp 52-53 (USSR)

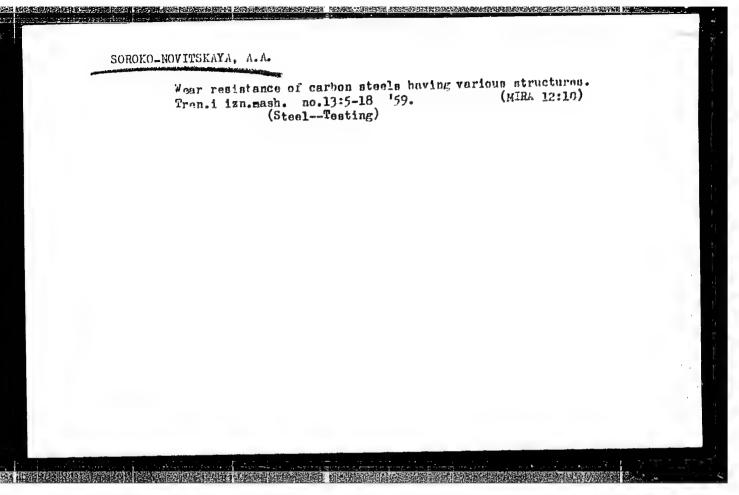
ABSTRACT: The authors investigated the influence of isothermal treatment on the resistance to abrasion wear of the

carbon steels U8, U10 and U12, the chemical compositions of which are entered in Table 1. Two regimes of heat-treatment were compared, namely isothermal hardening (heating to 810°C, cooling in a lead bath at 380°C), and ordinary hardening followed by tempering (heating to 810°C followed by quenching in water and tempering at 400°C). The tempering temperature was chosen so as to obtain the same hardness as was obtained after isothermal treatment. The hardness was determined on a PMT-3

instrument with a 200 g load. The obtained results confirm the favourable influence of isothermal treatment on the wear resistance of the investigated steels. The most favourable combination of mechanical properties is

Influence of Isothermal Treatment On the Wear Resistance of Carbon obtained in the case of isothermal treatment in media having the temperatures 250 - 380°C. Under such conditions the transformation of the austenite proceeds slowly and the generated structural stresses dissipate. In carbon steel hardened with continuous cooling microcracks form which are not eliminated after tempering. After isothermal treatment the steel has no such microcracks and therefore isothermal treatment has a favourable influence on the resistance to abrasive wear of the metal.

There are 2 tables and 1 Soviet reference.

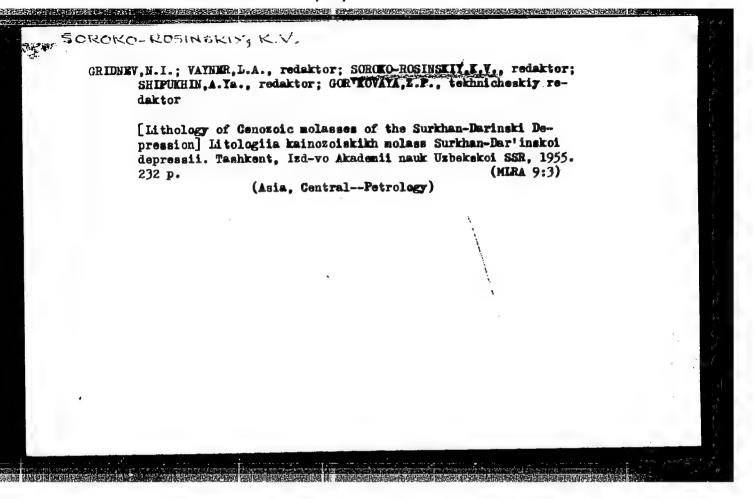


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JTHOR: <u>Kurbatov, L. N.</u> ochalkin, N. N.; Sharir	; Kabanov, A. N.; Sigriyanskiy, V. V., A. I.; Soroko-Novitskiy, N. V.	99	
th-	44	9/	
RG: none	•	E	
TLE: Generation of co	herent radiation in GaAs samples exc	ited by electrons	٠.
OURCE: AN SSSR. Dokla	idy, v. 1.65, no. 2, 1965, 303-304		
PIC TAGS: laser, semi	conductor laser, electron beam,	gallium arsenide,	
watal lattice, electron STRACT: Laser action	at 77K and at room temperature is re	ported in both n- and p-	
Cole evoited with s	heam of electrons. The Fabry-Perot	cavity was prepared by	
man at En Go u An a	ane. The resonator mirror surfaces electron beam device supplied electro	ns with energies up to	
kov The renetition	rate and the pulse duration were 50-	-200 burses ber second	
70 w wee 17 mamp.	tively. The maximum beam current at The electron beam was normal to the p	ofished salisce of the	
mmla The light was a	mitted from the faces normal to the	polished laces. The	
3 and 150 and 10=2 St	ties were different for different samue the effective mass of the electro	n and the width of the	
bidden con in Cole et	re larger than in InSb and InAs (two etime of the electrons is very short,	of the other semiconduc	
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Abstract

: Denseness of plant standing in a nest was studied with and without irrigation in relation to the course of grain riponing of corn of the North Dakota variety in connection with its photosynthetic activity. The deseness of corn standing in a nest did not affect the ripening of Grain, nor the chlorophyll content in the leaves. During the ripening, an increase of the absolute weight of Grain was observed; the weight increase of the grain - according to

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> the length of the cob from top to base - was also ascertained; with irrigation, the ripening proceeded faster and a decrease of absolute weight of grain was observed. The intensity of photosynthesis and the accumulation of chlorophyll - under conditions of irrigation - increased. The conclusion is made that ripening of corn grain is related to the accumulation of chlorophyll in the leaves and to the intensity of photosynthesis. -- S. W. Gorelkina.

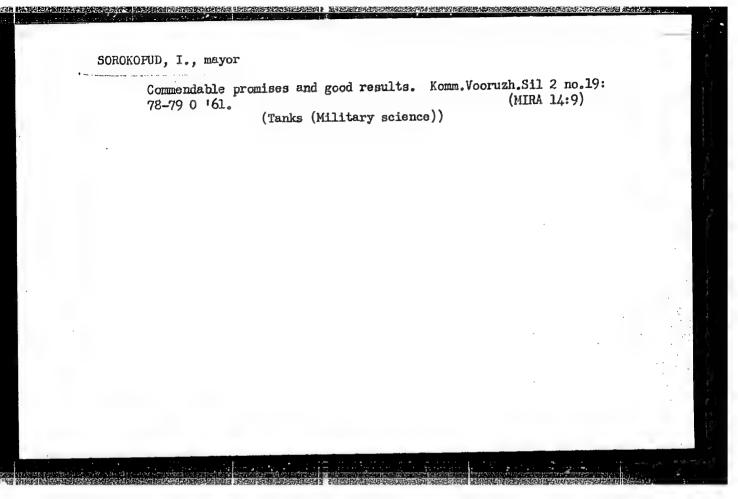
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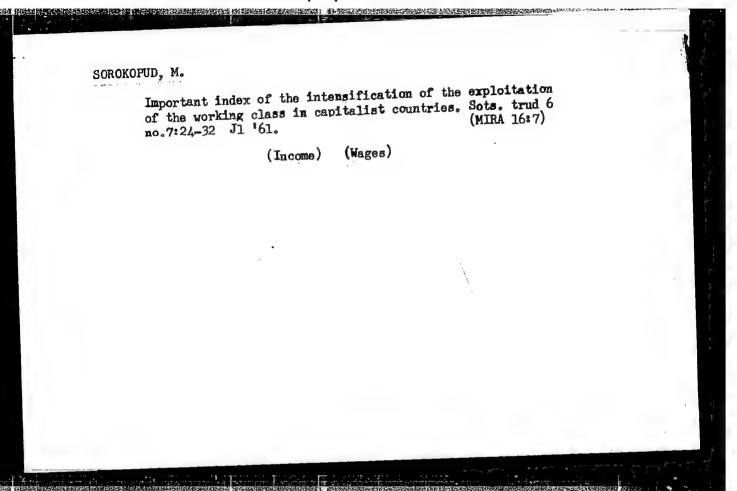
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